

HASTELLOY[®] C-22[®] alloy

Tensile Strength and Elongation

Form	Test Temperature		Thickness/Bar Diameter		0.2% Offset Yield Strength		Ultimate Tensile Strength		Elongation
	°F	°C	in	mm	ksi	MPa	ksi	MPa	%
Sheet	RT	RT	0.028-0.125	0.7-3.2	59	407	116	800	57
Sheet	200	93	0.028-0.125	0.7-3.2	54	372	110	758	58
Sheet	400	204	0.028-0.125	0.7-3.2	44	303	102	703	57
Sheet	600	316	0.028-0.125	0.7-3.2	42	286	98	676	62
Sheet	800	427	0.028-0.125	0.7-3.2	41	283	95	655	67
Sheet	1000	538	0.028-0.125	0.7-3.2	40	276	91	627	61
Sheet	1200	649	0.028-0.125	0.7-3.2	36	248	85	586	65
Sheet	1400	760	0.028-0.125	0.7-3.2	35	241	76	524	63
Plate	RT	RT	0.25-0.75	6.4-19.1	54	372	114	786	62
Plate	200	93	0.25-0.75	6.4-19.1	49	338	107	738	65
Plate	400	204	0.25-0.75	6.4-19.1	41	283	98	676	66
Plate	600	316	0.25-0.75	6.4-19.1	36	248	95	655	68
Plate	800	427	0.25-0.75	6.4-19.1	35	241	92	634	68
Plate	1000	538	0.25-0.75	6.4-19.1	34	234	88	607	67
Plate	1200	649	0.25-0.75	6.4-19.1	32	221	83	572	69
Plate	1400	760	0.25-0.75	6.4-19.1	31	214	76	524	68
Bar	RT	RT	0.5-2.0	12.7-50.8	52	359	111	765	70
Bar	200	93	0.5-2.0	12.7-50.8	45	310	105	724	73
Bar	400	204	0.5-2.0	12.7-50.8	38	262	96	662	74
Bar	600	316	0.5-2.0	12.7-50.8	34	234	92	634	79
Bar	800	427	0.5-2.0	12.7-50.8	31	214	89	614	79
Bar	1000	538	0.5-2.0	12.7-50.8	29	200	84	579	80
Bar	1200	649	0.5-2.0	12.7-50.8	28	193	80	552	80
Bar	1400	760	0.5-2.0	12.7-50.8	29	200	72	496	77

Values are averages from numerous tests

RT= Room Temperature